Docket No. 5697-39DV

<u>PATENT</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In regworm et al.

U.S. Patent No.: 6,982,007 Issued: January 3, 2006

Filed: October 28, 2003

For: DIVIDED

DIVIDED PRESURE VESSEL APPARTUS FOR CARBON DIOXIDE BASED SYSTEMS

AND METHODS OF USING SAME

Date: June 19, 2006

Commissioner for Patents

Attn: Certificate of Correction Branch

P.O. Box 1450

Alexandria, VA 22313-1450

REQUEST FOR ENTRY OF CERTIFICATE OF CORRECTION UNDER 35 U.S.C §254 AND 37 C.F.R. §1.322

Sir:

The Assignee of record for the above-referenced patent hereby requests, pursuant to 35 U.S.C §254 and 37 C.F.R. §1.322, that a Certificate of Correction be issued. This request is made in order to correct a mistake incurred through the fault of the U.S. Patent and Trademark Office (PTO). No fee is believed due. However, the Commissioner is authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

The mistake appearing in the patent is set forth with correction on the Certificate of Correction enclosed herewith. Also enclosed are copies of documents, that were filed with the PTO providing evidence that correction of this error should be made, as follows:

- 1. Decision Granting Filing Date of October 28, 2003;
- 2. Resubmittal of Petition to Accord Proper Filing Date;
- 3. Petition to Accord the Proper Filing Date;
- 4. Stamped Return Postcard for Petition;
- 5. Application Transmittal;
- 6. Express Mail Receipt;
- 7. USPS Track & Confirm Shipment Details;
- 8. Postcard filed with the Application; and
- 9. Filing Receipt.

Respectfully submitted,

David D. Beatty

Registration No. 38,071

Myers Bigel Sibley & Sajovec, P.A.

P. O. Box 37428

Raleigh, North Carolina 27627

Telephone: (919) 854-1400 Facsimile: (919) 854-1401

Customer No. 20792

Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to: Commissioner for Patents, Attn: Certificate of Correction Branch, P.O. Box 1450, Alexandria, VA 22313-1450 on June 19, 2006.

Katie W

JUN 23 2006

Certificate

Of Correction

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

6,982,007

DATED

January 3, 2007

INVENTOR(S)

Worm et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

(22) Filed:

"Oct. 29, 2003" should be -- Oct. 28, 2003 --.

MAILING ADDRESS OF SENDER: Myers, Bigel, Sibley & Sajovec P.O. Box 37428 Raleigh, NC 27627 PATENT NO. 6,982,007 No. of additional copies:

 \Rightarrow

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.





Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 www.uspto.gov

COPY MAILED

MYERS BIGEL SIBLEY & SAJOVEC P.O. BOX 37428 RALEIGH NC 27627

JAN 2.8 2005

OFFICE OF PETITIONS

In re Application of

Steven L. Worm et al Application No. 10/695,544

Filed: October 28, 2003

Attorney Docket No. 5697-39DV

:DECISION GRANTING FILING

:DATE OF October 28, 2003

This is a decision on the petition under 37 CFR 1.10(c), filed February 23, 2004, and supplemented on December 21, 2004, requesting that the above-identified application be accorded a filing date of October 28, 2003, rather than the presently accorded date of October 29, 2003.

Petitioner requests the earlier filing date on the basis that the application was purportedly deposited with the U.S. Postal Service (USPS) as Express Mail on October 28, 2003 pursuant to 37 CFR 1.10. In support, petitioner has submitted a copy of Express Mail Label No. EV318416404US. The same Express Mail receipt number appears on the original "Utility Patent Application Transmittal." Additionally, a copy of the USPS Intranst Track Confirmation verifies the aggregations date as Intranet Track Confirmation verifies the acceptance date as October 28, 2003 in Raleigh NC, for Express Mail Label No. EV318416404US.

In view of the above, it is concluded that the application was deposited as "Express Mail" with the USPS on October 28, 2003.

The petition is <u>granted</u>.

The application file is being referred to the Office of Initial Patent Examination for processing with a filing date of October 28, 2003, and for the mailing of a corrected Filing Receipt.

Telephone inquiries specific to this decision on petition should be directed to the undersigned at (571) 272-3208.

Karen Creasy

Petitions Examiner
Office of Petitions
Office of the Deputy Commissioner for Patent Examination Policy

ATTOWNEY DOCKET NO. 5697-39DV





In re: Worm et al.

For:

Filed: October 28, 2003

DIVIDED PRESSURE VESSEL APPARATUS FOR CARBON DIOXIDE BASED

SYSTEMS AND METHODS OF USING SAME

Date: December 17, 2004

Confirmation No.: 5474

Group Art Unit: 1765

Attention: Charlema Grant
Office of Patent Legal Administration
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22212-1450

RESUBMITTAL OF PETITION TO ACCORD PROPER FILING DATE

Dear Ms. Grant:

Enclosed herewith please find a copy of a Petition to Accord Proper Filing Date dated February 20, 2004 (hereinafter "Petition") for the above-identified patent application. As instructed by USPTO representative Steven Bentley on December 1, 2004, Applicants are resubmitting the Petition because Applicants have not received confirmation that the Patent Office has received the original Petition. Also enclosed herewith is a copy of the return postcard with the USPTO stamp of receipt of the previously submitted Petition on February 20, 2004. The United States Patent and Trademark Office Patent Application Information Retrieval (PAIR) system also does not indicate that the original document has been received.

This petition is due to error on the part of the USPTO, it is applicant's belief that no fee is due with this petition. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to our Deposit Account No. 50-0220.

Applicants respectfully request that the granting of October 28, 2003 as the filing date pursuant to 37 CFR § 1.10.

Respectfully submitted,

David D. Beatty

Registration No. 38,071

USPTO Customer No. 20792 Myers Bigel Sibley & Sajovec, P.A. Post Office Box 37428 Raleigh, North Carolina 27627 Telephone: (919) 854-1400

Facsimile: (919) 854-1401

Certificate of Mailing under 37 CFR § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Office of Patent Legal Administration, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

on December 17, 2004

Katie A. Chung





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Worm et al.
Serial No.: 10/695,544
Filed: October 28, 2003

Confirmation No.: 5474 Group Art Unit: 1765

Filed: October 28, 2003

DIVIDED PRESSURE VESSEL APPARATUS FOR CARBON DIOXIDE BASED

SYSTEMS AND METHODS OF USING SAME

Date: February 20, 2004

Office of Patent Legal Administration Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PETITION TO ACCORD THE PROPER FILING DATE

Sir:

As set forth in 37 CFR § 1.10(c) and MPEP § 506.02, Applicants hereby petition to grant the proper filing date of October 28, 2003 rather than October 29, 2003 for the above-identified patent application as this was the date the application was deposited as "Express Mail" in the U.S. Postal Service. The following is enclosed as evidence of October 28, 2003 being the correct filing date for the application, which was properly filed under 37 C.F.R. § 1.10:

- 1. A true and accurate copy of the Cover Sheet for the Application showing the Express Mail signature and date on Page 2;
- 2. A true and accurate copy of the Express Mail Receipt along with a copy of the USPS-Track & Confirm from the web page (www.usps.com), showing "acceptance" or deposit date with the USPS at 5:31 p.m. on October 28, 2003; and
- 3. A true and accurate copy of our return post card and of the official filing receipt for this application, sent by the United States Patent and Trademark Office, showing that Applicants were improperly given the filing date of October 29, 2003 instead of the Express Mail date of October 28, 2003.

This petition is being filed promptly after Applicants became aware of the improperly accorded filing date. Accordingly, Applicants respectfully request the granting of October 28, 2003 as the filing date pursuant to 37 CFR § 1.10.



In re: Worm *et al*. Serial No.: 10/695,544 Filed: October 28, 2003

Page 2

On the basis that Applicants properly followed the requirements of 37 CFR § 1.10 and the USPTO failed to accord the proper filing date under MPEP § 505 and thus the need to file this petition is due to error on the part of the USPTO, it is applicants' belief that no fee is due with this petition. However, the Commissioner is authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted,

David D. Beatty

Attorney For Applicants Registration No. 38,071

USPTO Customer No. 39072 Myers Bigel Sibley & Sajovec Post Office Box 37428 Raleigh, North Carolina 27627 Telephone: 919/854-1400

Facsimile: 919/854-1401

Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Office of Patent Legal Administration, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 20, 2004.

Katie A. Chung





DDB:kao P. E 02-26-04 AO : 98 IN 1 Administration tents 5697-39DV February 20, 2004

Office of Patent Legal Administration Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir: Kindly acknowledge receipt of the accompanying by placing your receiving date stamp hereon and mailing:

- 1) Petition to Accord the Proper Filing Date
- 2) Utility Patent Application Transmittal Letter and Fee Transmittal form
- 3) Express Mail Receipt and USPS-Track & Confirm form
- 4) Copy of the Return Postcard
- 5) Copy of the Official Filing Receipt

In re: Worm et al.; Serial No.: 10/695,544; Filed: October 28, 2003; For: DIVIDED PRESSURE VESSEL APPARATUS FOR CARBON DIOXIDE BASED SYSTEMS AND METHODS OF USING SAME

Respectfully submitted,
MYERS BIGEL SIBLEY & SAJOVEC







IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.: 5697-39DV DATE: October 27, 2003

UTILITY PATENT APPLICATION TRANSMITTAL LETTER AND FEE TRANSMITTAL FORM (37 CFR 1.53(b))

BOX PATENT APPLICATION Assistant Commissioner for Patents Washington, DC 20231

| Sir: |
|---|
| Transmitted herewith for filing under 37 CFR 1.53(b) is: a patent application a Continuation a Divisional a Continuation-in-Part (CIP) Application of prior application no.:09/976,551; filed October 12, 2001, the disclosure of which is hereby incorporates herein by reference in its entirety. and claims the benefit of Provisional Application No; filed |
| Inventor(s) or Application Identifier: Steve L. Worm, Raleigh, NC; James P. DeYoung, Durham, NC; James B. McClain, Raleigh, NC; David E. Brainard, Knightdale, NC; |
| Entitled: DIVIDED PRESSURE VESSEL APPARATUS FOR CARBON DIOXIDE BASED SYSTEMS AND METHODS OF USING SAME |
| Correspondence Address: Myers Bigel Sibley & Sajovec, P.A. P. O. Box 37428 Raleigh, North Carolina 27627 Telephone: (919) 854-1400 Facsimile: (919) 854-1401 Customer No. 20792 |
| Enclosed are: 1. Application Transmittal Letter and Fee Transmittal Form (A duplicate is enclosed for fee processing) 2. 44 pages of Specification (including 28 claims) 3. 8 sheets of Formal Drawings (35 USC 113) 4. Oath or Declaration a. newly executed (original or copy) b. copy from prior application (37 CFR 1.63(d) (for continuation/divisional) [Note Box 6 Below] c. DELETION OF INVENTOR(S) (Signed statement deleting inventor(s) named in the prior application) 5. Application Data Sheet. See 37 CFR 1.76 |
| 6 Incorporation By Reference (useable if box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under |



| Box 4b, is consideraby reference there | | he disclosure of the | accompanying application | tion and is hereby incor | porated |
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| | m. mputer Program (2 | Appendix) | | | |
| 8. Assignment pa | | | Filed in parent. | • | |
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| 10. X Information Di | sclosure Statemer | at and PTO-1449 | 9 | | |
| 11. Preliminary Ar | nendment (Please | enter all claim | amendments prior | to calculating the j | filing fee.) |
| | ation Document | | | | |
| 13. Certified Copy | | | Filed | | |
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| a. computer read b. paper copy | table copy | | | | |
| c. statement in s | upport | | | | |
| 15. An Associate F | | | | | |
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| BASIC FEE | | | \$370.00 | \$ 740.00 | · |
| TOTAL CLAIMS | 28- 20 = | 8 | x 09 = \$ | x 18 = \$ 144 | |
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| MULTIPLE Depen | | | + 145 = \$ | + 290 = \$ | |
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| | | eing deposited with | h the United States Post | al Service "Express Ma | il Post Office |
| to Addressee" service unde | r 37 CFR 1.10 on the | date indicated abo | ve and is addressed to: | BOX PATENT APPL | ICATION, |
| Commissioner for Patents, | | | | | |
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| Lyndsey D. Hall () | | • | | | 7. |



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| CUSTOMERUSE ONLY METHOD OF PATIENT: A 2 / OU SI Express Mid Corporas Act. No. FROM: prease Provin PHONE: MYERS BIGEL SIBLEY & SAJOVEC FO BOX 37428 RALEIGH NC 27627-7428 POR BOX 1450 ALEXANDRIA, VA 22313-1450 PRESSIHARD: YOU are making 3 copies. FOR PICKUP/OR TRACKING: CALL 1-800-222-18.11! www.usps.com. | | | | | |





Track & Confirm

Shipment Details

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Your item was delivered at 9:43 am on October 29, 2003 in ALEXANDRIA, VA 22313 to PATENT OFFICE. The item was signed for by J STECKEL.

Here is what happened earlier:

- ARRIVAL AT UNIT, October 29, 2003, 7:46 am, DULLES, VA 20102
- ENROUTE, October 28, 2003, 6:45 pm, RALEIGH, NC 27623
- ACCEPTANCE, October 28, 2003, 5:31 pm, RALEIGH, NC 27612

Notification Options

> Track & Confirm by email

What is this?



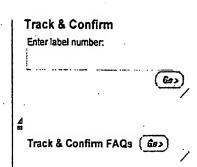
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| Commissioner for Patents | 1508 John Date: 10/28/03 |
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| ••••• | Doc. No. <u>5(4)</u> 34)V |
| P.O. Box 1450 | Serial No. |
| Alexandria, VA 22313-1450 | 11-06-03 AD Inventor: Now et al |
| | 11-06-03 ADDIVENION VIDVIV VI |
| Sir: Kindly acknowledge | receipt of the accompanying items listed below |
| by placing your reco | iving stamp hercon and return mailing: |
| Application Transmitt | al and Check S 044 |
| Specification pages | 14 V IDS & PTO-1449 & 10 refs. |
| Specification pages | |
| No. of Claims 2 | Preliminary Amendment |
| Declaration & POA | |
| Assignment and Fee | lssue Fee |
| Small Entity Statem | |
| Formal Drawings/_ | 8 sheets Appeal |
| Associate Power of | |
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| 03917 U.S. PTO | |
| 10/695544 | Respectfully submitted, |
| 1485400 Wall Latin Links Links Ball 60 Jul 1666 | MYERS BIGEL SIBLEY & SAJOVEC, P.A. |
| | Attorneys for Applicant |
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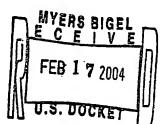
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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Rox 1450 Absorbin, Versina 22013-1450

| APPL NO. | FILING OR 371 (c) DATE | ART UNIT | FIL FEE REC'D | ATTY.DOCKET NO | DRAWINGS | TOT CLMS | IND CLMS |
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| 10/695,544 | 10/29/2003 | 1765 | 914 | 5697-39DV | 8 | 28 | 2 |

20792 MYERS BIGEL SIBLEY & SAJOVEC PO BOX 37428 RALEIGH, NC 27627



CONFIRMATION NO. 5474
FILING RECEIPT

OC000000011903649

Date Mailed: 02/13/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Steven L. Worm, Raleigh, NC; James P. DeYoung, Durham, NC; James B. McClain, Raleigh, NC; David E. Brainard, Wake Forest, NC;

Domestic Priority data as claimed by applicant

This application is a DIV of 09/976,551 10/12/2001 which claims benefit of 60/240,473 10/13/2000

Foreign Applications

If Required, Foreign Filing License Granted: 02/13/2004

Projected Publication Date: 05/27/2004

Non-Publication Request: No

Early Publication Request: No

42-15-04 305:53 1世

Title

Divided pressure vessel apparatus for carbon dioxide based systems and methods of using same

-:-



LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).